

New York State Department of Transportation

Yellow Flag NB22CTW010

By: Rehan Afridi

Flag Date: April 04, 2022

Superseding Information:

This flag supersedes: YF NB2122W022

Structure Information

BIN: 1065318

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.

Date: April 04, 2022 10:00:00 AM

Of: NYSDOT Region 11

Signature Information

Signature: Rehan Afridi, P.E. 075185

Date: April 19, 2022

Reviewed By: Robert Kemp

Date: April 19, 2022

Attachments: 7

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 194			
	107 - Steel Open Girder/Beam	989	ft
	PR831 - Steel Beam End	42	each

Flagged Condition Description

This Yellow Flag NB22CTW010 supersedes previously issued Yellow Flag NB2122W022.

Location: Span 194, Girder G19 at Pier 194.

Description: The right clip/connection angle of Girder G19 connection to the pier cap at Pier 194 exhibits a 3-1/4" (previously 3") long vertical crack x 1/4" (previously 1/8") wide at the lower fillet section. At the left side of Girder G19, the stiffener connection angle is heavily corroded and has a 4.5" L x 1/4" corrosion hole adjacent to the girder bottom flange connection (no change from the previous inspection).

Notes:

1. The affected member, Girder G19 is a load path redundant steel girder consisting of a web depth of 21.30" inches and thickness of 0.608 inches and is located under the deck in the roadway, approximately 12" off the edge of curb line/safety walk.
2. The remaining section of the right clip/connection angle has heavy corrosion and up to 3/4" pack rust between the connection at the pier cap.
3. The adjacent Girder (left) G18, 5'-3" on center has repair plates and is in good condition.
4. The adjacent Stringer (right) S2, approximately 2'-0" on center, acts as a support for the railing and curb area above and has a corrosion hole 4.5" L x 3" W at the left side bottom flange angle. An additional 24" L x 3" W section of the left side bottom flange angle exhibits corrosion with up to 50% section loss. There is no significant change in the condition.
5. A double lane closure on 3rd Avenue Eastbound with shadow vehicle and a 35' bucket truck is required to access the flagged location.

Flag Photographs

Photo Number: 1

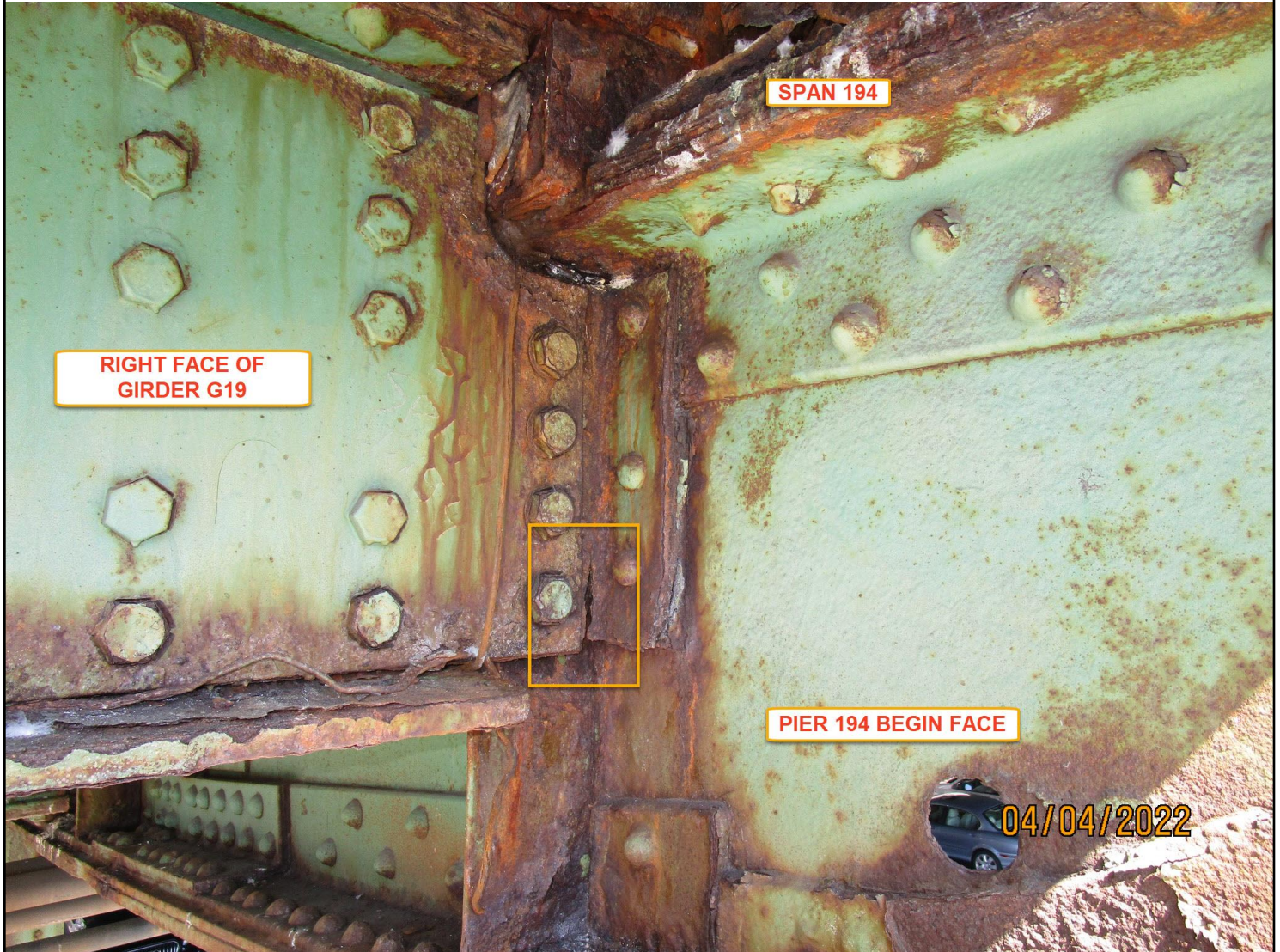
Photo Filename: Photo 1-RA 610_0423.jpg



Attachment Description: Span 194 G19 at Pier 194, Looking End: General view of the flagged location that exhibits severe corrosion and cracking in both connection angles of the girder to the pier cap.

Photo Number: 2

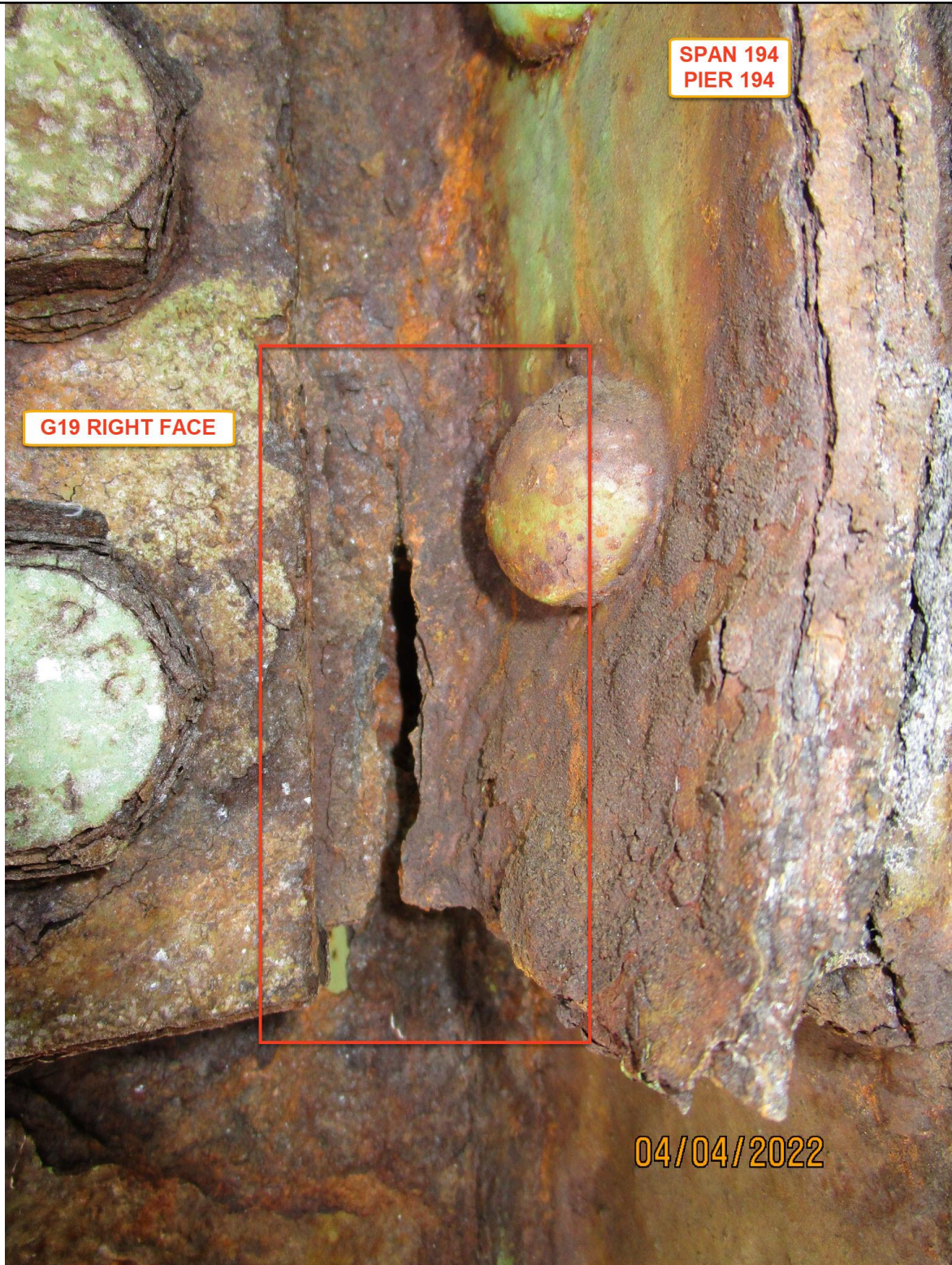
Photo Filename: Photo 2-RA 610_0426.jpg



Attachment Description: Span 194 G19 at Pier 194, Looking End-Left: General view of the flagged location showing severe corrosion/cracking in the lower fillet area of the girder connection angle, right side.

Photo Number: 3

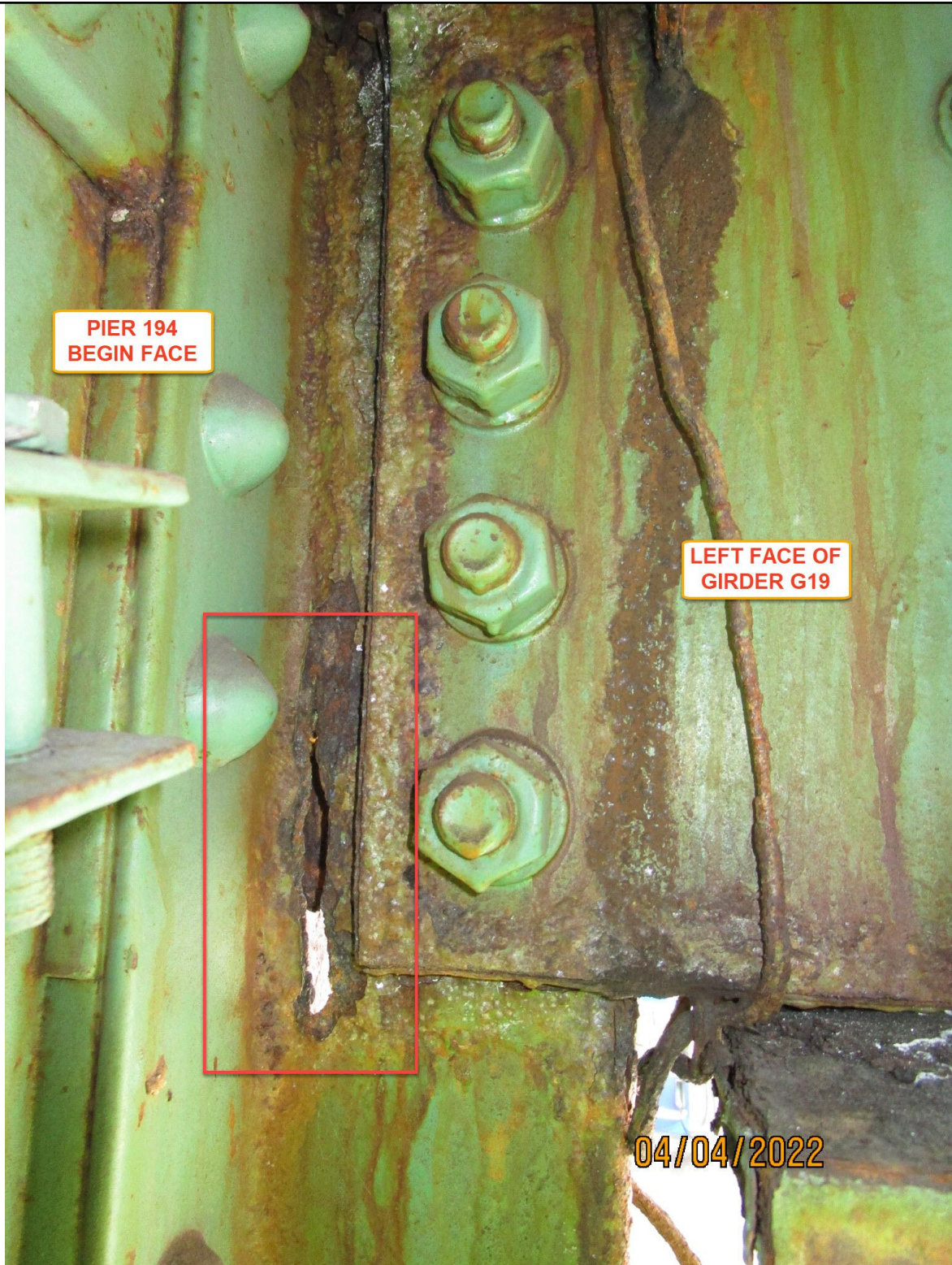
Photo Filename: Photo 3-RA 610_0428.jpg



Attachment Description: Span 194 G19 at Pier 194, Looking End-Left: Close-up view of the flagged location showing severe corrosion/cracking in the lower fillet area of the girder connection angle right side.

Photo Number: 4

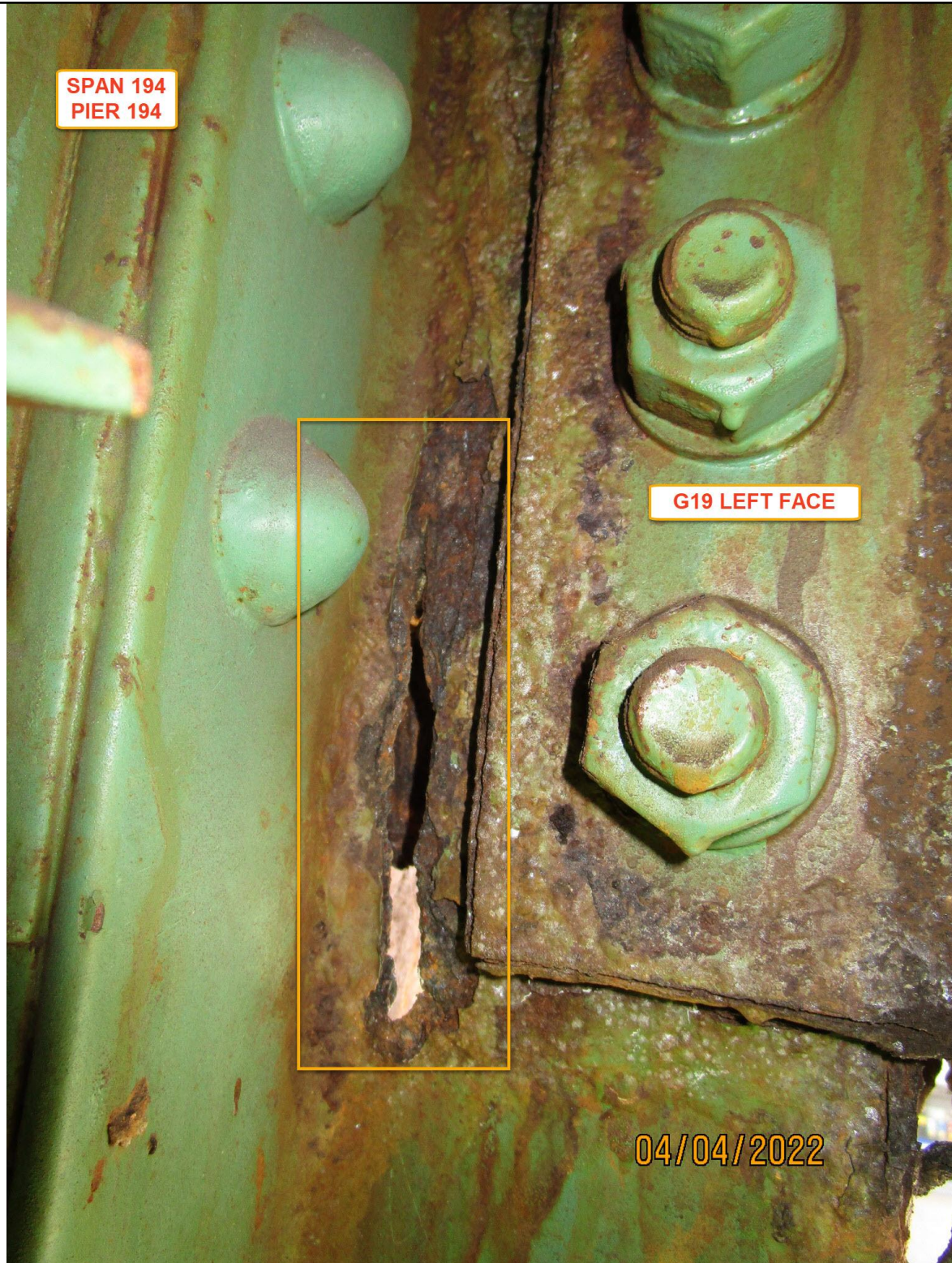
Photo Filename: Photo 4-RA 610_0433.jpg



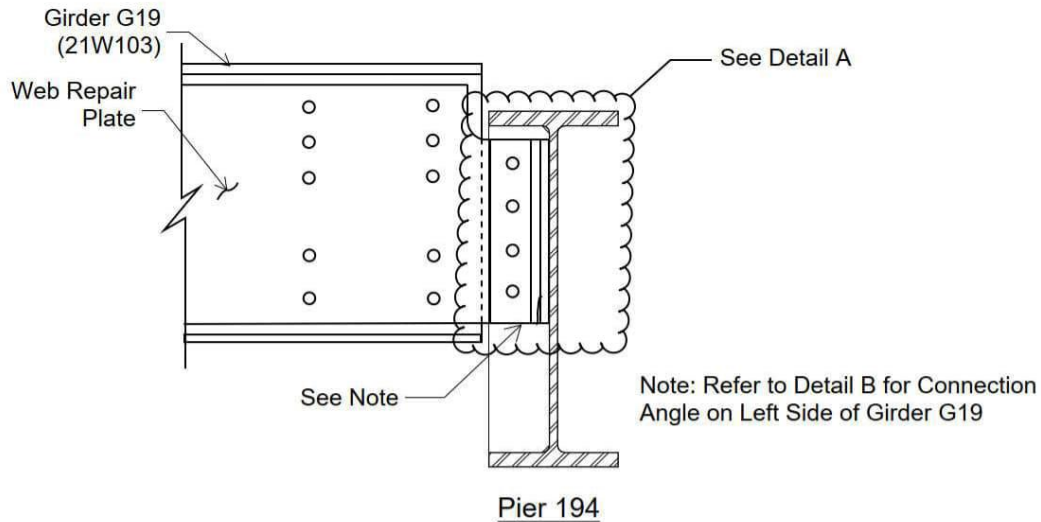
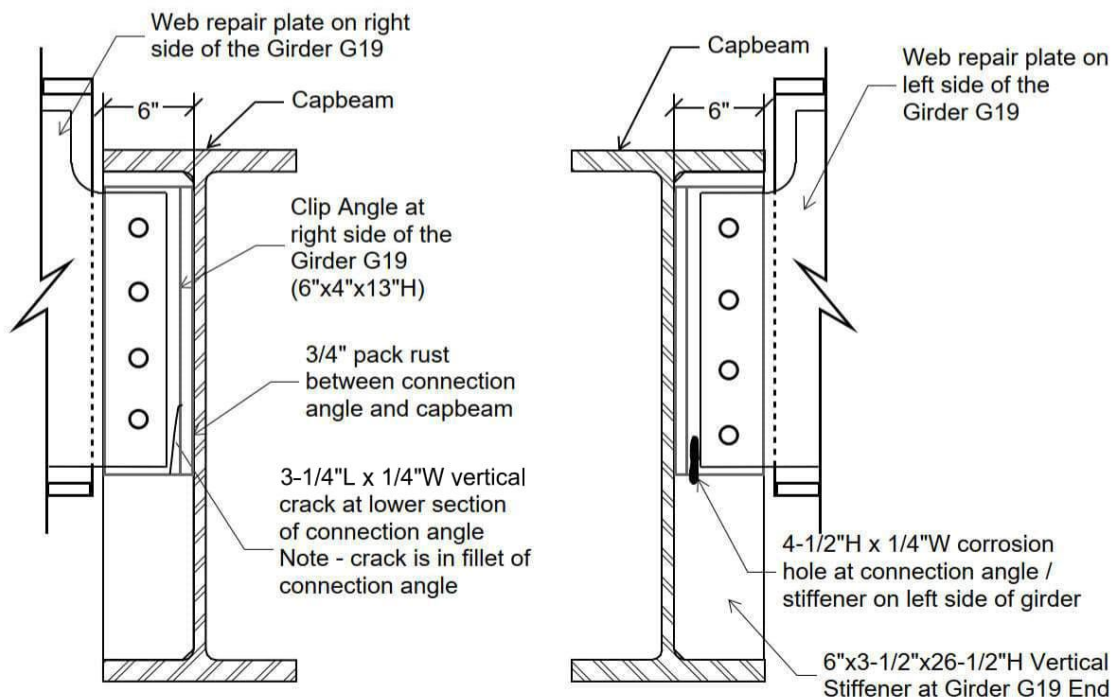
Attachment Description: Span 194 G19 at Pier 194, Looking Right: General view of the flagged location showing severe corrosion/cracking in the lower fillet area of the girder connection angle, left side.

Photo Number: 5

Photo Filename: Photo 5-RA 610_0434.jpg



Attachment Description: Span 194 G19 at Pier 194, Looking Right: Close-up view of the flagged location showing severe corrosion/cracking in the lower fillet area of the girder connection angle left side.

Photo Number: **6**Photo Filename: **Sketch Form-Girder G19 at Pier 194.jpg****SPAN 194, GIRDER G19 BEAM END AT PIER 194****(LOOKING LEFT)****N.T.S**

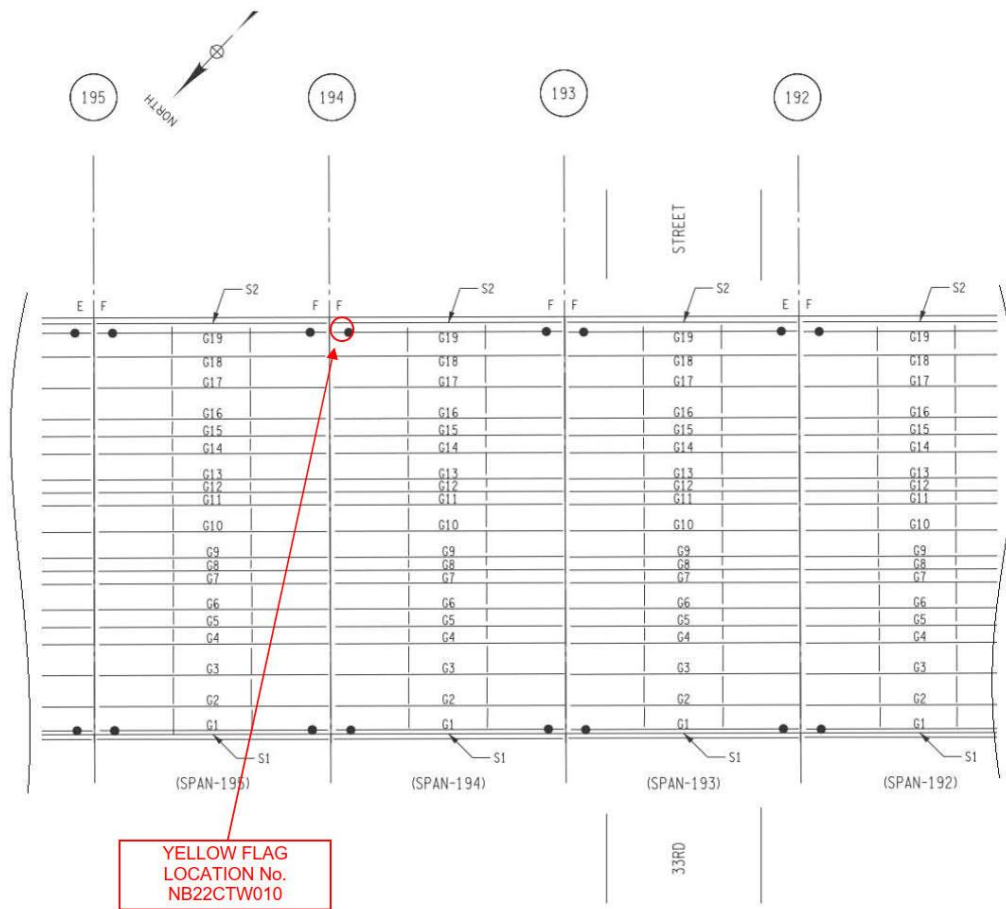
DETAIL - A
DETAILED VIEW OF BEAM END CONNECTION
SHOWING CRACK (LOOKING LEFT)
N.T.S

DETAIL - B
DETAILED VIEW OF BEAM END CONNECTION
SHOWING HOLE (LOOKING RIGHT)
N.T.S

Attachment Description: Span 194 G19 at Pier 194 Sketch

Photo Number: 7

Photo Filename: SN 194 G19 at Pier 194 Framing Plan.jpg



Attachment Description: Span 194 G19 at Pier 194 Framing Plan